

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s) : Seok-Hyun Yun et al.  
Serial No. : To be assigned  
Filed : Herewith (April 27, 2006)  
Entitled : METHOD AND APPARATUS FOR PERFORMING OPTICAL  
IMAGING USING FREQUENCY-DOMAIN INTER-  
FEROMETRY  
Group Art Unit : To be Assigned  
Examiner : To be Assigned

INFORMATION DISCLOSURE STATEMENT

**Express Mail No.: EV 642 787 908 US**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), applicants bring to the attention of the Examiner the documents listed on the attached Form PTO 1449, and respectfully request that the listed documents be considered by the Examiner and made of record in the above-captioned application. Copies of the United States patent references listed on the Form PTO-1449 are not enclosed, but the PCT, foreign and non-patent references are enclosed.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that the listed documents are material or constitute "prior art." If the Examiner applies the documents as prior art against any claim in the application and applicants determine that the cited documents do not constitute "prior art" under

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United States law, applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of the documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should the documents be applied against the claims of the present application.

This submission is being filed together with the application. Therefore, applicants do not believe that any fee is due in connection with the submission of this paper. However, if any fee is due, or if any overpayment has been made, the Commissioner is authorized to charge any such fee or credit any overpayment, to our Deposit Account No. 50-2054.

Respectfully submitted,

**Dorsey & Whitney, LLP**



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PTO Reg. No. 40,479  
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Form PTO-1449 U.S. Department of Commerce  
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10577562

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BY APPLICANT**  
(Use several sheets if necessary)Applicant(s)  
Seok-Hyun Yun et al.Filing Date  
Herewith (April 27, 2006)Group  
To be assigned**U.S. PATENT DOCUMENTS**

*Exam. Init.	Document No.							Date	Name	Class	Subclass	Filing Date if Appropriate
	2	3	3	9	7	5	4	January 25, 1944	P.H. Brace			
	4	6	0	1	0	3	6	July 15, 1986	Faxvog et al			
	4	6	3	1	4	9	8	December 23, 1986	Cutler			
	4	8	6	8	8	3	4	September 19, 1989	Fox et al			
	4	9	2	5	3	0	2	May 15, 1990	Cutler			
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	4	9	9	3	8	3	4	February 19, 1991	Carlhoff et al			
	5	0	4	0	8	8	9	August 20, 1991	Keane			
	5	0	4	6	5	0	1	September 10, 1991	Crilly			
	5	1	2	0	9	5	3	June 9, 1992	Harris			
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	5	2	9	3	8	7	2	March 15, 1994	Alfano et al			
	5	3	1	7	3	8	9	May 31, 1994	Hochberg et al			
	5	3	2	1	5	0	1	June 14, 1994	Swanson et al			
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	5	3	8	3	4	6	7	January 24, 1995	Auer et al			
	5	4	1	9	3	2	3	May 30, 1995	Kittrell et al			
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	5	4	6	5	1	4	7	November 7, 1995	Swanson			
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	5	4	9	1	5	5	2	February 13, 1996	Kittrell			
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	5	5	8	3	3	4	2	December 10, 1996	Koji Ichie			

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		5	5	9	0	6	6	0	January 7, 1997	MacAulay et al			
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		6	1	1	7	1	2	8	September 12, 2000	Kenton W. Gregory			

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	2003	0	0	2	3	1	5	3	January 30, 2003	Izatt et al			
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		6	6	8	0	7	8	0	January 20, 2004	Fee			

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	2003	0	1	3	5	1	0	1	July 17, 2003	Webler			
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		6	8	1	6	7	4	3	November 9, 2004	Moreno et al.			
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		5	7	3	5	2	7	6	April 7, 1998	Lemelson, Jerome			
		6	5	5	8	3	2	4	May 6, 2003	Von Behren et al. **			

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		5	9	4	9	9	2	9	September 7, 1999	Hamm **			
		6	3	5	3	6	9	3	March 5, 2002	Kano et al. **			
		5	0	3	9	1	9	3	August 13, 1991	Snow et al. **			
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		6	6	8	7	0	1	0	February 2004	Horii et al.			

**FOREIGN PATENT DOCUMENT**

		Document No.							Date	Country	Class	SubClass	Translator	
													Yes	No
		4	3	0	9	0	5	6	September 22, 1994	Germany				
		2	2	0	9	2	2	1	May 4, 1989	Great Britain				
		0	1	1	0	2	0	1	June 13, 1984	European				
		0	2	5	1	0	6	2	January 7, 1988	European				
		9	2	1	9	9	3	0	November 12, 1992	WIPO				
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		9	9	4	4	0	8	9	September 2, 1999	WIPO				
		9	9	5	7	5	0	7	November 11, 1999	WIPO				
		0	0	5	8	7	6	6	October 5, 2000	WIPO				
		0	1	4	2	7	3	5	June 14, 2001	WIPO				
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0		4	1	0	5	5	9	8	December 9, 2004	WIPO				
		0	2	3	6	0	1	5	May 10, 2002	WIPO**				
		0	2	3	8	0	4	0	May 16, 2002	WIPO**				
		1	4	2	6	7	9	9	June 9, 2004	European **				

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\* U.S. equivalent is provided.

\*\* References cited in International Search Report

**OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)**Fujimoto et al., "High Resolution in Vivo Intra-Arterial Imaging with Optical Coherence Tomography," Official Journal of the British Cardiac Society, Vol. 82, pages 128-133 Heart, 1999D. Huang et al., "Optical Coherence Tomography," SCIENCE, Vol. 254, pages 1178-1181, November 1991Tearney et al., "High-Speed Phase -and Group Delay Scanning with a Grating Based Phase Control Delay Line," Optics Letters, Vol. 22, Pages 1811-1813, December 1997Rollins, et al., "In Vivo Video Rate Optical Coherence Tomography," Optics Express, Vol. 3, pages 219-229, September 1998Saxer, et al., High Speed Fiber-Based Polarization-Sensitive Optical Coherence Tomography of in Vivo Human Skin," Optical Society of America, Vol. 25, pages 1355-1357, September 2000Oscar Eduardo Martinez, "3000 Times Grating Compress or with Positive Group Velocity Dispersion," IEEE, Vol. QE-23, pages 59-64, January 1987Kulkarni, et al., "Image Enhancement in Optical Coherence Tomography Using Deconvolution," Electronics Letters, Vol. 33, pages 1365-1367, July 1997Bashkansky, et al., "Signal Processing for Improving Field Cross-Correlation Function in Optical Coherence Tomography," Optics & Photonics News, Vol. 9, pages 8137-8138, May 1998Yung et al., "Phase-Domain Processing of Optical Coherence Tomography Images," Journal of Biomedical Optics, Vol. 4, pages 125-136, January 1999Tearney, et al., "In Vivo Endoscopic Optical Biopsy with Optical Coherence Tomography," SCIENCE, Vol. 276, June 1997W. Drexler et al., "In Vivo Ultrahigh-Resolution Optical Coherence Tomography," Optics Letters Vol. 24, pp. 1221-3, September 1999

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		Barfuss H. et al., "Modified Optical Frequency-Domain Reflectometry with High Spatial-Resolution for Components of Integrated Optic Systems," <u>Journal Of Lightwave Technology</u> , Vol. 7, pages 3-10, January 1989
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		Chinn, S.R. et al., "Optical Coherence Tomography Using a Frequency-Tunable Optical Source," <u>Optics Letters</u> , Vol. 22, pages 340-342, March 1997
		Danielson, B.L. et al., "Absolute Optical Ranging Using Low Coherence Interferometry," <u>Applied Optics</u> , Vol. 30, page 2975, July 1991

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		Glombitza, U., "Coherent Frequency-Domain Reflectometry for Characterization of Single-Mode Integrated-Optical Wave-Guides," <u>Journal of Lightwave Technology</u> , Vol. 11, pages 1377-1384, August 1993
		Golubovic, B. et al., "Optical Frequency-Domain Reflectometry Using Rapid Wavelength Tuning of a Cr <sup>4+</sup> :Forsterite Laser," <u>Optics Letters</u> , Vol. 11, pages 1704-1706, November 1997
		Haberland, U. H. P. et al., "Chirp Optical Coherence Tomography of Layered Scattering Media," <u>Journal of Biomedical Optics</u> , Vol. 3, pages 259-266, July 1998
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